1FW.

1639

PATENT Customer No. 22,852 9960.0001-06

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

n re Application of:

Campbell et al.

Group Art Unit: 1632

Serial No.: 09/989,126

Examiner: D. Crouch

Filed: November 21, 2001

Confirmation No. 1814

For:

UNACTIVATED OOCYTES AS CYTOPLAST

RECIPIENTS FOR NUCLEAR TRANSFER

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

SUBMISSION OF TERMINAL DISCLAIMERS

Applicant was contacted by the Examiner on January 26, 2007, who indicated that Terminal Disclaimers were needed to obviate potential obviousness-type double patenting rejections over U.S. Patent No. 6,548,741; U.S. Application No. 09/650,194; U.S. Application No. 09/658,862; U.S. Application No. 10/190,617; and U.S. Application No. 10/914,161.

Solely to expedite allowance of the pending claims, and not in acquiescence to these rejections, Applicant submits herewith two Terminal Disclaimers in the above-referenced application, executed by an attorney of record.

Please associate these papers with the above-identified application. The requisite fee of \$260.00 is enclosed.

Please grant any extensions of time required to enter these papers and charge any additional required fees to our deposit account 06-0916.

Respectfully submitted,

Dated: March 9, 2007

Salvatore J. Arrigo

Reg. No. 46,063

Telephone: 202-408-4160
Facsimile: 202-408-4400
E-mail: arrigos@finnegan.com



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Campbell et al.) Group Art Unit: 1632
Serial No.: 09/989,126) Examiner: D. Crouch
Filed: November 21, 2001) Confirmation No. 1814

UNACTIVATED OOCYTES AS CYTOPLAST For: RECIPIENTS FOR NUCLEAR TRANSFER

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

TERMINAL DISCLAIMER

Assignee, Roslin Institute represents that it is the assignee of the entire right, title and interest in and to the instant application, Application No. 09/989,126, filed November 21, 2001, as evidenced by assignments recorded at Reel 8582, Frames 0263-0264 (copy attached); Reel 9220, Frames 0250-0256 (copy attached); and Reel 017336, Frame 0136 (copy attached).

Assignee, Roslin Institute, further represents that it is the assignee of the entire right, title and interest in and to U.S. Application No. 09/650,194, filed August 29, 2000, U.S. Application No. 09/658,862, filed September 8, 2000; U.S. Application No. 10/190,617, filed July 9, 2002; and U.S. Application No. 10/914,161, filed August 10. 2004, as indicated by assignments recorded at Reel 8582, Frames 0263-0264 (copy attached); Reel 9220, Frames 0250-0256 (copy attached); and 017336, Frame 0136 (copy attached). 03/12/2007 SZEWDIE1 00000023 09989126

130,00 OP 01 FC:1814

To obviate a double patenting rejection, assignees hereby disclaim, except as provided below, the terminal part of the statutory term of any patent granted on the instant application, which would extend beyond the expiration date of the full statutory term defined in 35 U.S.C. §§ 154 to 156 and 173, as presently shortened by any terminal disclaimer, of any patent issuing from U.S. Application No. 09/650,194; U.S. Application No. 09/658,862; U.S. Application No. 10/190,617; or U.S. Application No. 10/914,161. Assignees hereby agree that any patent so granted on the instant application shall be enforceable only for and during such period that it and the patent issuing from U.S. Application No. 09/650,194; U.S. Application No. 09/658,862; U.S. Application No. 10/190,617; or U.S. Application No. 10/914,161 are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, Assignees do not disclaim the terminal part of any patent granted on the instant application that would extend to the expiration date of the full statutory term as defined in 35 U.S.C. §§ 154 to 156 and 173 of any patent issuing from U.S. Application No. 09/650,194; U.S. Application No. 09/658,862; U.S. Application No. 10/190,617; or U.S. Application No. 10/914,161, as presently shortened by any terminal disclaimer, in the event that the prior patent later expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or in part, is terminally disclaimed under 37 C.F.R. § 1.321, has all claims canceled by a reexamination certificate, is reissued, or is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

The undersigned is an attorney of record.

Respectfully submitted,

Dated: March 9, 2007

Salvatore J. Arrigo Reg. No. 46,063
Telephone: 202-408-4160 Facsimile: 202-408-4400 E-mail: arrigos@finnegan.com

07-14-1997

190 190 190 190 190 190 190 190 190 190	1/S DEPARTMENT OF COMMERCE Passes and Trademark Office
DWOKET NO 2980-003	54558
To the Honorable Commissioner of Patents and Trademarks:	Please record the attached original documents or copy thereto:
1 Name of conveying party(ics): Keith Henry Stockman CAMPHELL and Ian WILMLIT	Name and address of receiving party(ies): Name: Roslin Institute (E-limburgh) Internal Address
Additional name(s) of conveying party(ies) attached? Yes X No	·
Nature of conveyance: X Assignment Merger	Street Address: <u>Rostin</u>
Security Agreement Change of Name Other	City: Midlothian EH25 91'S State/Country: GREAT BRITAIN ZIP:
Execution Date: May 13, 1997	Additional name(s) & address(es) attached? Yes X No
4. Application number(s) or patent number(s): 1f the document is being filed together with a new application, the ex A. Patent Application No(s). 08/803.165, filed February 19, 1997	necution date of the application is: B. Patent No(s)
Additional numbers attack	hed? Yes X No
Name and address of party to whom correspondence concerning document should be mailed: Name: I.OWE PRICE LEBLANC & BECKER Internal Address:	6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41) \$40.00 Enclosed
Street Address: 99 Canal Center Plaza, Suite 300	X Authorized to be charged to deposit account B. Deposit account number: 12-2237
City: Akaandria State: VA ZIP: 22314	
DO NOT USE	THIS SPACE
9. Statement and signature. To the best of my knowledge and belief, the foregoing informative original document. Robert L. Price, 22,685 Name and Registration No. of Person Signing	Signature Total number of pages comprising cover sheet: 1
(MB No. 0851-0011 (exp. 4/94)	

07/10/1997 TTDM11 00000035 DAM:122237 08803165)

PATENT

REEL: 858? FRAME: 0263

Eucket No.: 2980-003

ASSIGNMENT

In consideration of the pro-	emises and other good and va	luable consideration i	n hand paid, the re	ceipt and sufficie	ency of which
is hereby acknowledged, the under	rsigneo.				
(1) Keith Henry Stockman Campb	xell (4)				
(2) lan Wilmut	(5)				
(3)	(0)			<u> </u>	
who have made a certain new and	useful invention, hereby sel	ll, assign and transfer	unto	•	•
Roslin Institute (Edinburgh), Rosl	<u>in, Midlothian EH25 9PS, C</u>	ireat Britain		•	
	•		•		
its successors and assigns (hereina as defined in 35 U.S.C. 100 in the		•			
UNACTIVATED OOCYTES AS	CYTOPI.AST RECIPIENT:	S FOR NUCLEAR T	RANSFER		
(a) for which an application for U	nited States Letters Patent v	vas filed on <u>February</u>	19, 12215 0110 121		
No. <u>08/803,165;</u> or (b) for which an application for U		•	m 17	1. 1947	
(b) for which an application for U	Inited States Letters Patent	was executed on .	I rest is	,	-
					ue any and all
	part thereast are		POTO STATE	and legal tente	sentatives: the
continuations, or continuations-in- Industrial Property to the said AS undersigned agree that the attorney	SIGNEE, for its interest a	ion shall hereafter act	on behalf of said	ASSIGNEE;	
, seene that Inc allottes	2 Ol 100019 In para -blanca				
AND the undersioned here	by agree to transfer a like in	terest, and to render	all necessary assis	ance in making i	Application for
divisional.	LEIZZDEO OL EXICHOCO PEURIS	1 810111 01 -1-		ante and avalicat	tions for natent
	111011705.2110		a at a soid ACI	CHIENDED ITE CHOC	PREME SECTIONS
based thereon, growing out of or rel and legal representatives, deemed e	essential to ASSIGNEE's fu	Il protection and title	in and to the inv	ention hereby tr	ansferred.
					•
SIGNED on the dates indicated asi	de our signatures:				·
INVENTORS	المستريد	DATE SIGN	ED 👾 . 🦠 .	• .	• • •
	الله المراد ا	7.77		• • • • • •	
1) Name: Keith Henry Stockman C 2) Name: lan Wilmut	ampbell // // //	W	13 05.7	7 .	
Name: Keith Hein's Steel	7.1000		1 17	1003	
Name: lan Wilmut	Vilmet		Long -	1997	
Name:			A CONTRACTOR OF THE PARTY OF TH		and the second second
4)			1000		
Name:			<u> </u>		
Name:		15611	1 1 1 1 1 1 1 1 1		
6)					
Name:				•	
and the second s	ger Aller Villa				
				_	
			PATEN	T	
RECORDED: 06/30/1	1997	REEL:	8582 FRAI	иЕ: 0264	, The way
RECOKURD. 00/2011		والمراجع الإيواري المراجع والمتعادي			

MRD 5-29-98

06-10-1998

Pages a 1-31-97 DOCKET NO.: 2980-003 To the Honorable Commissioner of research 1. Name of conveying party(ies): ROSLIN INSTITUTE (EDINBURGH) Additional name(s) of conveying party(ies) attached? Yes X No 3. Nature of conveyance: X. Assignment Merger Security Agreement Change of Name City: Midlothian EH25 9PS State/Country: GREAT B. Additional name(s) & address(es) attached? X Yes Additional name(s) & address(es) attached? X Yes Additional name(s) & address(es) attached? X Yes	
To the Honorable Commissioner 01 reseases and security first and address of receiving party(ies): 1. Name of conveying party(ies): ROSLIN INSTITUTE (EDINBURGH) Additional name(s) of conveying party(ies) attached? Yes X No 3. Nature of conveyance: X Assignment	
1. Name of conveying party(ies): ROSLIN INSTITUTE (EI)INBURGH) Additional name(s) of conveying party(ies) attached? Yes X No 3. Nature of conveyance: X Assignment	
Additional name(s) of conveying partytes) additional name(s) of conveying partytes addit	
Assignment Merger Security Agreement Change of Name City: Midlothian EH25 9PS State/Country: GREAT I	
Other Additional parne(s) & address(es) attached? X Yes	
Administration April 7 1998	No
Execution Date: March 26, 1998 and April 7, 1998 4. Application number(s) or patent number(s):	
4. Application number(s) at P If the document is being filed together with a new application, the execution date of the application is: B. Patent No(s). A. Patent No(s).	
Additional numbers attached? Yes X No	
5. Name and address of party to whom correspondence concerning document should be mailed: 7. Total fee (37 CFR 3.41)	\$ <u>40.00</u>
Name: Gilberto M. Villacorta. PEPPER HAMILTON LLP Internal Address: Z. Authorized to be charged to deposit account	
Street Address: 1300 Nineteenth St., N.W. 8. Deposit account number: 50-0436	
City: Washington, D.C. State: ZIP: 20036	
08/1998 DHBUTEN 00000171 300438 08803183 DO NOT USE THIS SPACE	
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of original document. MMUMACONA	of the May 29, 1998 Date
Gilberto M. Villacortp., 34,038 Name and Registration No. of Person Signing Total number of pages comprising cover	

Document # 71087

DOCKET NO.: 2980-003

Continuation of Recordation Cover Sheet, Item # 2:

The Minister of Agriculture, Fisheries and Food Nobel House 17 Smith Square London, SW1P 3JR

Biotechnology and Biological Sciences Research Council Polaris House North Star Avenue Swindon, SN2 1UH

> PATENT REEL: 9220 FRAME: 0251

PATENT ASSIGNATION

bу

(1) ROSLIN INSTITUTE (EDINBURGH),

in favour of

ROSLIN INSTITUTE (EDINBURGH); THE MINISTER OF AGRICULTURE, FISHERIES AND FOOD; and BIOTECHNOLOGY and BIOLOGICAL SCIENCES RESEARCH COUNCIL

1998

Wright Johnston & Mackenzie Solicitors 12 St Vincent Place Glasgow G1 2EQ

(Ref: A00020016/KMC/JCH)

PATENT REEL: 9220 FRAME: 0252

PATENT ASSIGNATION

by



(1) ROSLIN INSTITUTE (EDINBURGH), incorporated under the Companies Acts as a company limited by guarantee with registered number 157100 and having its registered office at Roslin, Midlothian, EH25 9PS ("the Assignor")

in favour of

(EDINBURGH). INSTITUTE ROSLIN (2) incorporated under the Companies Acts as a company limited by guarantee with registered number 157100 and having its registered office at Roslin, Midlothian, EH25 9PS and THE AGRICULTURE. OF MINISTER FISHERIES AND FOOD of Nobel House, 17 Smith Square, London, SW1P 3JR acting through the Ministry of Agriculture, Fisheries and Food; and BIOTECHNOLOGY and RESEARCH **SCIENCES** BIOLOGICAL COUNCIL, whose principal office is at Polaris House, North Star Avenue, Swindon, SN2 1UH (collectively referred to as "the Assignees")

WHEREAS

- (A) The Assignor is the proprietor of the Patent Applications set out in the Schedule annexed and executed as relative hereto (the "Patent Applications");
- (B) The Assignor has agreed to assign the Patent Applications to the Assignees; and
- (C) The Assignees have agreed to hold the Patent Applications and any granted patents issuing from such applications subject to a Co-Ownership Agreement to be entered into of even date herewith by the parties to this Agreement.

NOW IT IS HEREBY AGREED as follows:-

1. Assignation

The Assignor hereby assigns to the Assignees as joint owners the entire right, title and interest of the Assignor in and to the Patent Applications and any patents or other similar forms of protection granted pursuant to the Patent Applications together with the right to recover and to take all such proceedings as may be necessary for the

PATENT REEL: 9220 FRAME: 0253 recovery of damage and other forms or relief in respect of all infringements of the Patent Applications whether taking place before or after the date of this Assignation.

Further Assurance 2.

Each party agrees generally to sign, seal, execute and deliver all documents, deeds, licences and agreements and to do all acts and things which may be required or may be deemed necessary that any party for giving effect to this Assignation including, without limitation, entry into instruments confirmatory of such rights for registration with appropriate authorities anywhere in the world.

Governing Law 3.

This Agreement shall be governed by Scots Law and the parties agree to submit to the non exclusive jurisdiction of the Scottish Courts: IN WITNESS WHEREOF these presents consisting of this and the preceding page together with the Schedule annexed hereto are executed as follows:-

Subscribed for and on behalf of BIOTECHNOLOGY AND BIOLOGICAL SCIENCES RESEARCH COUNCIL by Scott McGregor Lawrie their duly authorised signatory at London on 26th March 1998 before the following witness:-

Witness:

Full Name:

12. ST VINCENT PUCE Authorised Signatory

GUSGEW

TRAINER SOLKITOR Occupation:

Subscribed for and on behalf of THE MINISTER OF AGRICULTURE, FISHERIES AND FOOD by Dr Anthony Richard Burne, duly authorised signatory at London on 26th March 1998 before the following witness:-

Witness:

Address:

ST. CHESTOPHER HOUSE Authorised Signatory Address:

SOUTHWARK ST, LONDON

Occupation: <u>CIVIL</u> Spenary.



REEL: 9220 FRAME: 0254

Subscribed for and on behalf of ROSLIN INSTITUTE (EDINBURGH) by Professor Grahame John Bulfield, Director and Chief Executive, at Roslin on 7th April 999 before the following witness:

Witness:

Cian X Non-

Full Name:

CIME ALMES NEWSON

Address:

12 JT V. NIENT PLACE

GLASHOW

Occupation:

SOLICITOR

PATENT

REEL: 9220 FRAME: 0255

This is the Schedule referred to in the Assignation by (1) Roslin Institute (Edinburgh) in favour of (2) Roslin Institute (Edinburgh); The Minster of Agriculture, Fisheries and Food; and Biotechnology and Biological Sciences Research Council

1. Unactiviated Oocytes and Cytoplast Recipients for Nuclear Transfer (MAGIC)

Filing Date	Priority Date	Country	Application No
30th August 1996	31" August 1995	International	PCT/GB96/02098
30 th August 1996	31 st August 1995	South Africa	96/7383
30th August 1996	31st August 1995	USA	08/803,165

International Patent Application - proceeding in:

Czech Republic, Hungary, Norway, Poland, Russian Federation, Ukraine, Canada, Brazil, Mexico, Cuba, Australia, China, Israel, Japan, Republic of Korea, New Zealand, Singapore, Vietnam, United Kingdom, Hong Kong, Europe (Austria, Belgium, Switzerland/Liechtenstein, Germany, Denmark, Spain, Finland, France, United Kingdom, Greece, Ireland, Italy, Luxembourg, Monaco, Netherlands, Portugal, Sweden).

2. Quiescent Cell Populations for Nuclear Transfer (Quiescence)

Filing Date	Priority Date	Country	Application No
30th August 1996	31# August 1995	International	PCT/GB96/02099
30th August 1996	31 st August 1995	South Africa	96/7390
30th August 1996	31st August 1995	USA	08/802,282

International Patent Application - proceeding in:

Czech Republic, Hungary, Norway, Poland, Russian Federation, Ukraine, Canada, Brazil, Mexico, Cuba, Australia, China, Israel, Japan, Republic of Korea, New Zealand, Singapore, Vietnam, United Kingdom, Hong Kong, Europe (Austria, Belgium, Switzerland/Liechtenstein, Germany, Denmark, Spain, Finland, France, United Kingdom, Greece, Ireland, Italy, Luxembourg, Monaco, Netherlands, Portugal, Sweden).

Scorta Lendre Beter

Albre 111

RECORDED: 05/29/1998-

PATENT

REEL: 9220 FRAME: 0256



UNITED STATES PATENT AND TRADEMARK OFFICE

Under Secretary of Commerce for Intellectual Property and DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MARCH 21, 2006

PTAS

700250393A

FINNEGAN, HENDERSON, FARABOW, GARRETT &

LLP 901 NEW YORK AVENUE, NW WASHINGTON, DC 20001-4413

> UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 03/14/2006

REEL/FRAME: 017336/0136

NUMBER OF PAGES: 10

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 9960.0002-02

ASSIGNOR:

ROSLIN INSTITUTE (EDINBURGH)

DOC DATE: 06/30/2003

DOC DATE: 06/30/2003

ASSIGNOR:

SECRETARY OF STATE FOR

ENVIRONMENT, FOOD & RURAL

AFFAIRS

ASSIGNOR: BIOTECHNOLOGY AND BIOLOGICAL

SCIENCES RESEARCH COUNCIL

(BBSRC)

DOC DATE: 05/22/2003

017336/0136 PAGE 2

ASSIGNEE:

ROSLIN (EDINBURGH)

ROSLIN

MIDLOTHIAN, EH25 9PS, UNITED

KINGDOM

SERIAL NUMBER: 08802282

FILING DATE: 02/19/1997

ISSUE DATE: 11/14/2000

TITLE: QUIESCENT CELL POPULATIONS FOR NUCLEAR TRANSFER IN THE PRODUCTION OF NON-HUMAN MAMMALS AND NON-HUMAN MAMMALIAN EMBRYOS

SERIAL NUMBER: 08803165

FILING DATE: 02/19/1997 ISSUE DATE: 06/26/2001

PATENT NUMBER: 6252133

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS OF NUCLEI FROM

QUIESCENT AND NON-QUIESCENT CELLS WHILE MAINTAINING CORRECT PLOIDY

SERIAL NUMBER: 09225233

FILING DATE: 01/04/1999

ISSUE DATE:

TITLE: QUIESCENT CELL POPULATIONS FOR NUCLEAR TRANFER

SERIAL NUMBER: 09658862

FILING DATE: 09/08/2000

ISSUE DATE:

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 09650194

FILING DATE: 08/29/2000

ISSUE DATE:

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

FILING DATE: 08/29/2000

SERIAL NUMBER: 09650285

ISSUE DATE: 02/25/2003

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS OF QUIESCENT CELL

NUCLEI WHILE MAINTAINING CORRECT PLOIDY

SERIAL NUMBER: 09973701

FILING DATE: 10/11/2001

ISSUE DATE:

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 09989125

FILING DATE: 11/21/2001

ISSUE DATE:

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

FILING DATE: 11/21/2001

SERIAL NUMBER: 09989128

ISSUE DATE:

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

FILING DATE: 11/21/2001

SERIAL NUMBER: 09989126

ISSUE DATE:

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 10118337

FILING DATE: 04/09/2002

3/21 6 5:26 PAGE 004/008 Fax Server RightFax

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

017336/0136 PAGE 3

FILING DATE: 05/21/2002

SERIAL NUMBER: 10151304 ISSUE DATE:

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

FILING DATE: 05/21/2002

SERIAL NUMBER: 10151305 ISSUE DATE:

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

FILING DATE: 07/09/2002

SERIAL NUMBER: 10190611 ISSUE DATE:

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

FILING DATE: 07/09/2002

SERIAL NUMBER: 10190617 ISSUE DATE:

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

FILING DATE: 09/05/2002

SERIAL NUMBER: 10234854 ISSUE DATE:

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

FILING DATE: 08/10/2004

SERIAL NUMBER: 10914161 ISSUE DATE:

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

FILING DATE: 08/11/2004 SERIAL NUMBER: 10915338 ISSUE DATE:

TITLE: OUIESCENT CELL POPULATIONS FOR NUCLEAR TRANSFER

FILING DATE: 08/03/2004

SERIAL NUMBER: 10909845 ISSUE DATE:

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

FILING DATE: 03/02/2005

SERIAL NUMBER: 11068903 ISSUE DATE:

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

FILING DATE: 02/19/1997 SERIAL NUMBER: 08802282

ISSUE DATE: 11/14/2000

TITLE: QUIESCENT CELL POPULATIONS FOR NUCLEAR TRANSFER IN THE PRODUCTION

OF NON-HUMAN MAMMALS AND NON-HUMAN MAMMALIAN EMBRYOS

FILING DATE: 02/19/1997 SERIAL NUMBER: 08803165 ISSUE DATE: 06/26/2001

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS OF NUCLEI FROM

QUIESCENT AND NON-QUIESCENT CELLS WHILE MAINTAINING CORRECT PLOIDY

FILING DATE: 08/29/2000

SERIAL NUMBER: 09650285

RightFax

PAGE 005/008 Fax Server 5:26

TITLE: UNACTIVATED COCYTES AS CYTOPLAST RECIPIENTS OF QUIESCENT CELL

NUCLEI WHILE MAINTAINING CORRECT PLOIDY

017336/0136 PAGE 4

SHAREILL COLES, EXAMINER ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

ght	Fax	3/	5:26	PAGE		6/0	U6 PAX C		
		 .	RECOPORTION PATENT	TO BEST	FR S	HEET	Pale Atto	nt and Trade may Docket	of Commerce mark Office No. 9960,0002-02 or Number: 22,852
To t	he Director of the U.S. Pe se record the attached o	dent an	d Trademark Office:	reol.			Mall Stop A	ssignment F	ecordition Services
7.	Alama of comparing Di	utvies):			2.	ıme:	Name and address		perty(les):
Add	tional name(s) of conveyin See Attachment	g party(I	les) ettached? X Yes] No	ln	emai	Address: Rosi	In	
3.	Nature of conveyance				St	A feet	ddress;		-
Ø	Assignment		Merger		C	ly:	Midlothian, EH25	9P6	
	Security Agreement	0	Change of Name		St	ete:	The United Kingdom	Zip Code:	[Text]
	Joint Research Agreement	0	Government Interest Assignment	t	Ad	dition	ai name(s) & Add	reas(es) sitaci	ned?
	Executive Order 9494, Confirmatory License		Other:				∐Yes	⊠ No	
Exec	ution Date: [Date(8)]:	(2) June (3) May	2 10, 2003 22 2003				•		
4.	Application number(a) the application: [Type	or paten	t mumber(a): If this docu	ment is b	eing f	iled to	រក្សនាវ៉ានេះ ហៅវ៉ា ន វាទម	application, 1	he execution date of
A.	Patent Application Num	ber(s):			В.		Patent Number(s)) :.	
	08/802,282 08/803,185						6,147,276 6,252,1 33 6,625,24 3		
	Act	iltional I	numbers stached?	Ø Yes	See	Atta	chment B	□ No	
5.	Name and address of po concerning document at	erty to w	hom correspondence mailed:		6.		Total number of a 23	pplications a	nd patente involved:
Name					7.		Total fee (37 CFF	3 1.21(h) and	3.41): 840
ntern	Address: FINNEGAN, & DUNNER,	HENDE	rson, farabow, ga	ARRETT		0	Enclosed (Ple overpayment	ease charge o to deposit so	leficiency or credit count 06-0916)
Street	Address: 901 New York		e, N.W.			Ø	Authorized to	begusch ed o	to deposit account
City:	Washington, D.C	.							
State:	Zi	p:	20001-4413		8.		Deposit Account I	No.: <u>06-0918</u>	
ī.	Statement and signature								4.1
	had achalusad um to and	holief H	ne fonecoina Informatio	n la true a	nd co	NT9C	and any attached	copy is a tru	copy of the original

To the best of my document.

Salvatore J. Arrigo Rep. No. 46,063

Total number of pages including cover sheet, attachments and documents:

10



- 1. (continued) Attachment A: Additional Conveying Parties
 - (2) Secretary of State for Environment, Food & Rural Affairs (Dated: June 10, 2003)

 ("The Secretary of State") acting through the
 Department for the Environment, Food & Rural Affairs ("DEFRA")

 formerly known as the Ministry for Agriculture Fisheries and Food ("MAFF")
 - (3) Biotechnology and Biological Sciences Research Council ("BBSRC")
 (Dated: May 22, 2003)

4. (continued) Attachment B Patent Application Nos.

3/21406 5:26

A. U.S. Patent Application/Serial No.

09/225,233 09/658,862 09/650,194 09/650,285 09/973,701 09/989,125 09/989,128 09/989,126 10/118,337 10/151,304 10/151,305 10/190,611 10/190,617 10/234,854 10/914,161 10/915,338 10/909,845

11/068,903

1-807 P.020/027 F-261

ASSIGNATION

BY

ROSLIN INSTITUTE (EDINBURGH) incorporated under the Companies Acts as a company limited by guarantee with registered number 157100 and having its registered office at Roslin, Midlothian, EH25 9PS ("Roslin");

THE SECRETARY OF STATE FOR ENVIRONMENT, FOOD & RURAL AFFAIRS of Nobel House, 17 Smith Square, London, SW1P 3JR ("the Secretary of State") acting through the Department for the Environment, Food & Rural Affairs ("DEFRA") formerly known as the Ministry for Agriculture Fisheries and Food ("MAFF"); and

BIOTECHNOLOGY AND BIOLOGICAL SCIENCES RESEARCH COUNCIL whose principal office is at Polaris House, North Star Avenue, Swindon, SN2 1UH ("BBSRC");

In favour of

ROSLIN INSTITUTE (EDINBURGH) incorporated under the Companies Acts as a company limited by guarantee with registered number 157100 and having its registered office at Roslin, Midlothian, EH25 9PS ("Roslin").

WHEREAS:

- (A) Roslin, the Secretary of State and BBSRC are legal and beneficial owners of the patents and patent applications set out in the Schedule annexed and identified as relative hereto ("the Patents").
- (B) Roslin, the Secretary of State and BBSRC have agreed to assign any rights and interest they may have in the Patents to Roslin on the terms set out in this Assignation.

IT IS AGREED as follows:

1. ASSIGNATION

In consideration of the sum of £1 to be paid by each of Roslin, the Secretary of State and BBSRC to each of Roslin, the Secretary of State and BBSRC (the receipt and sufficiency of which is hereby acknowledged) Roslin, the Secretary of State and BBSRC hereby assign to Roslin:

1.1 all of its right, title and interest in and to the Patents; and

6326464 / 1 / LFA



1.2 all rights and powers arising or accrued therefrom (whether under statute or common law) including the right to sue for damages and other remedies in respect to any prior infringement of the assigned rights in or in respect of the Patents and to retain any and all sums obtained through such actions and the right to apply for, prosecute and obtain patent or similar protection throughout the world in respect of the inventions therein including any rights to claim priority therefrom so that the grant of any such patent or similar protection shall be in the name of and vest in Roslin.

LAW AND JURISDICTION

This Assignation shall be governed by and construed in accordance with Scots law and the parties agree to submit to the non-exclusive jurisdiction of the Scottish courts: IN WITNESS WHEREOF these presents consisting of this and the preceding page together with the Schedule are executed as follows:

duly authorised signatory, at following witness:	Authorised Signatory
FURNICE BURGESS Full Name JORGELIN INSTITUTE Address	
P.A. Occupation	
Subscribed for and on behalf of BIOTER RESEARCH COUNCIL by TO 22 at SWINDIN on 22	CHNOLOGY AND BIOLOGICAL SCIENCES duly authorised signatory MA (2003 before the following witness:
Witness	Authorised Signatory
MARLY MCDOWAGH Full Name BESON POLARISTA	_SE
Address	

HOWN NAMACER INMENTIONS UNTO

•			
signatory at following witness:	NDON on		OR THE ENVIRONMENT, duly authorised 2003 before the
G. Saco-Witness		Authorised S	ignatory
Euli Name	CAHAM NACO		10 3 TH
Address		sagon sus	, , , , , , , , , , , , , , , , , , ,
HEAD OF	NAMCH 13		0-0-
Occupation	OLICY I INTA	ernallande De	vision, JEFAI
* •	and bakey of BOSI IN	INSTITUTE (EDINBU	RGH) by
Subscribed for and , at	on benefit of Rosein on	2003 before the	following witness:-
		********	************
Witness	•••		. •
Full Name	***************************************		
Address			

Occupation		·	

This is the Schedule referred to in the foregoing Assignation by (1) Roslin Institute (Edinburgh); (2) Department for the Environment, Food & Rural Affairs; and (3) Biotechnology and Biological Sciences Research Council in favour of Roslin Institute (Edinburgh).

THE PATENTS

Quiescent Cell Populations for Nuclear Transfer (Quiescent Cells)

Priority Date:

31 August 1995

Priority Application no.:

GB 9517780.4 filed in the name of ROSLIN INSTITUTE

(EDINBURGH)

International Application no.:

PCT/GB96/02099 filed in the name of ROSLIN INSTITUTE

(EDINBURGH)

International Filling Date:

30 August 1996

† - European patent application designates: AT, BE, CH/LI, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI

	Geron ref.	K&S ref.	Application	Publication /	Status
Country	Ceroni ier.		no.	Grant no. 6,147,276	Granted
	700/201	P18787US	08/802,282	6,141,Z10	Pending
USA	700/202	J18787US	09/225,233	2318578	Granted
USA*	700/201UK	V18787GB	9802915.0	2331751	Granted
United Kingdom	700/202UK D	J18787GB	9824304.1	0849990	Granted
United Kingdom*	700/201EP	P18787EP	9692858 7.3 9692858 7.3	0043033	Granted
Austria	700/201EP	P18787EP	96928587.3		Granted
Belglum	700/201EP	P18787EP	96928587.3		Granted
Switz./Llechtenstein	700/201EP	P18787EP	96928587.3		Granted
Switz./Lieurienstein	700/201EP	P18787EP	96928587.3		Granted
Germany Denmark	700/201EP	P18787EP	96928587.3	 	Granted
Spain	700/201EP	P18787EP	96928587.3		Granted
France	700/201EP	P18787EP	96928587.3	-	Granted
Ireland	700/201EP	P18787EP	96928587.3	-	Granted
Italy	700/201EP	P18787EP	96928587.3	-	Granted
Luxembourg	700/201EP	P18787EP	96928587.3		Granted
Monaco	700/201EP	P18787EP	96928587.3		Granted
Netherlands	700/201EP	P18787EP	96928587.3		Granted
Sweden	700/201EP	P18787EP	96928587.		Granted
Slovenia	700/201EP	P18787EP	1 30320001.	<u></u>	

13-Nov-2003 03:38pm

•

Country	Geron ref.	K&S ref.	Application	Publication /	Status
	1	}	no.	Grant no.	
EPO ¹	700/202EP D	J18787EP	98203752.5	0930009	Pending
EPO1•	700/203EP D	K18787EP	99204105.3	1005789	Pending
South Africa	700/201SA	P18787ZA	96/7390	96/7390	Granted .
Czech Republic	700/201CZ	P18787CZ	PV608-98	•	Abandoned
Hungary	700/201HU	P18787HU	P9900234	•	Abandoned
Norway	700/201NO	P18787NO	980845	•	Abandoned
Poland	700/201PL	P18787PL	· P325331	-	Abandoned
Russian Federation	700/201/RU	P18787RU	98105782	•	Abandoned
Ukraine	700/201/UA	P18787UA	98031551	•	Abandoned
Canada	700/201CA	P18787CA	2229568		Pending
Brazil	700/201BR	P18787BR	9610034-6	•	Pending
Mexico	700/201MX	P18787MX	981646	-	Pending
Cuba	700/201CU	P18787CU	28/98	•	Abandoned
Austrella	700/201AU	P18787AU	68310/96	716956	Granted
Australia	700/202AU D ·	J18787AU	35418/00	•	Pending
China	700/201CN	P18787CN	96197891.0	-	Pending
lerael	700/2011L	P187871L	123298	<u> </u>	Abandoned
Japan	700/201JP	P18787JP	509996/96	<u> </u>	Pending
South Korea	700/201KR	P18787KR	701381/98		Pending
New Zealand	700/201NZ	P18787NZ	316149	316149	Granted
New Zealand*	700/202NZ D	J18787NZ	334288	334288 .	Granted
New Zealand*	700/203NZ D	K18787NZ	337311		Pending
Singapore	700/201SG	P18787SG	9801334-5	50267	Granted
Singapore*	700/202SG D	J18787SG	9900937-5	75155	Granted
Vietnam	700/201VN	P18787VN	19980153	2746	Abandoned
Hong Kong	700/201HK	P18787HK	98104138.8	1004938	Granted
Hong Kong*	700/202HK D	J18787HK	99104594.4	1019394	Granted

6526454 11/LFA

2. Unactivated Oocytes and Cytoplast Recipients for Nuclear Transfer (Magic)

Priority Date:

31 August 1995

Priority Application no.:

GB 9517779.6 filed in the name of ROSLIN INSTITUTE

(EDINBURGH)

International Application no.:

PCT/GB96/02098 filed in the name of ROSLIN INSTITUTE

(EDINBURGH)

International Filing Date:

30 August 1996

*- indicates divisional/continuation application filed

† - European patent application designates: AT, BE, CH/LI, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI

- (1) USSN 09/658,862 divisional from USSN 08/803,165
- (2) USSN 09/650,194 continuation of USSN 08/803,165
- (3) USSN 09/650,285 continuation of USSN 08/803,165
- (4) USSN 09/973,701 continuation of USSN 09/650,285
- (4) USSN 09/973,701 Continuation of USSN 09/650,285 (5) USSN 09/989,125 continuation of USSN 09/650,285
- (6) USSN 09/989,128 continuation of USSN 09/650,285
- (7) USSN 09/989,126 continuation of USSN 09/650,285
- (8) USSN 10/118,337 continuation of USSN 09/989,125
- (9) USSN 10/151,304 continuation of USSN 09/989,128
- (10) USSN 10/151,305 continuation of USSN 09/989,126
- (11) USSN 10/190,611 continuation of USSN 09/650,285
- (12) ~ USSN 10/190,617 continuation of USSN 09/650,285 (13) ~ USSN 10/234,854 continuation of USSN 10/151,305

Country	Geron ref.	K&S ref.	Application no.	Publication / Grent no.	Status
USA	710/201	P18826US	08/803,165	6,252,133	Granted
USA*(1)	710/202 D ·	J18826US	09/658,862		· Pending
USA-(2)	710/204 C	V18826US	09/650,194	-	Pending
· USA=(3)	710/203 C	W18826US	09/650,285	-	Pending
USA*(4)	710/210 C	W18826US-1	09/973,701	-	Pending
USA-(6)	710/205 C	W18826US-2	09/989,125		Pending
USA*(6)	710/206C	W18826US-3	09/989,128	-	Pending
USA*(7)	710/207C	W18826US-4	09/989,126		Pending
USA*(8)	710/211C	W18826US-5	10/118,337	•	Abandoned
USA -(V)	710/212C	W18826US-6	10/151,304	-	Abandoned
USA =(10)	710/213C	W18826US-7	10/151,305	-	Abandoned
USA =(11)	710/209C	W18826US-8	10/190,611	•	Abandoned
USA *(12)	710/214C	W18826US-9	10/190,617	•	Pending
USA *(13)	•	W18826US-10	10/234,854	•	Pending
United Kingdom	710/201UK	V18826GB	9802916.8	2318792	Granted
United Kingdom*	710/202UK D	J18826GB	9926730.4	2340493	Granted
EPO ¹	710/201EP	P18826EP	96928586.5	0847237	Pending
South Africa	710/201SA	P18826ZA	96/7383	96/7383	Granted
Czech Republic	710/201CZ	P18826CZ	PV604-98		Abandoned
Hungary	710/201HU	P16826HU	P9802485		Abandoned
Norway	710/201NO	P18826NO	98084€	-	Abandoned

6328454 ! 1 / LFA.

Country	Geron ref.	K&S ref.	Application no.	Publication /	
				Grant no.	Status
Poland	710/201PL	P18826PL	P325336	Ciditi No.	Abanda
Russian Federation	710/201RU	P18826RU	98105617		Abandoned
Ukraine	710/201UA	P18826UA	98031552	<u>-</u>	Abandoned
Canada	710/201CA	P18826CA	2229657	2229657	Abandoned
Brazil	710/201BR	P18826BR	9610013-3		Pending
Mexico	710/201MX	P18826MX	981645		Pending
Mexico*	7.10/202MX D	J18826MX-1	PA/a/2001/010		Pending
		01002011201	145	- ,	Pending
Cuba	710/201CU	P18826CU			
Australia	710/201AU		29/98	•	Abandoned
Australia*	710/202AU D	P18826AU	68309/96	728809	Granted
	710/203AU D	J18826AU	28013/01	•	Pending
Australia*		K18826AU	28014/01		Pending
China	710/201CN	P18826CN	96197892.9	-	Pending
Israel	710/201IL	P18826IL	123417	•	Abandoned
Japan	710/201JP	P18826JP	509995/96		Pending
South Korea	710/201KR	P18826KR	98-701382		Pending
New Zealand	710/201NZ	P18826NZ	. 316148	316148	Granted
New Zealand*	710/202NZ D	J18826NZ	335407	335407	Granted
New Zealand*	710/203NZ D	K18826NZ	504101	•	Pending
Singapore	710/201SG	P18826SG	9801330-3		Pending
Singapore*	710/201SG D	J18826SG	9900941-7	75919	Granted
Vietnam	710/201VN	P18826VN	S19980152	2747	Abandoned
Hong Kong	710/201HK	P18826HK	98104135.1	1004937	
Hong Kong*	710/202HK·D	J18826HK	00103527,6	1024381	Granted Granted
					OBMEQ

Signed on behalf of Roslin

Signed on behalf of DEFRA

Signed on behalf of BBSRC

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

□ BLACK BORDERS
□ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
□ FADED TEXT OR DRAWING
□ BLURRED OR ILLEGIBLE TEXT OR DRAWING
□ SKEWED/SLANTED IMAGES
□ COLOR OR BLACK AND WHITE PHOTOGRAPHS
□ GRAY SCALE DOCUMENTS
□ LINES OR MARKS ON ORIGINAL DOCUMENT
□ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

IMAGES ARE BEST AVAILABLE COPY.

OTHER:

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.